



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : ENZMANN Mark J.)

Serial No. 10/742,153)

Group Art Unit: 2681

Filed: December 19, 2003)

Examiner: DESIR, Pierre Louis

For: METHOD AND APPARATUS FOR
PROVIDING SEAMLESS CALL HANDOFF
BETWEEN NETWORKS THAT USE
DISSIMILAR TRANSMISSION ELEMENTS)

37 C.F.R. § 1.131 DECLARATION

Mail Stop RCE
Commissioner of Patents and Trademarks
P.O Box 1450
Alexandria, Virginia 22313-1450

January 19, 2006

Sir:

I, Mark J. Enzmann, declare as follows:

1. This declaration is to establish completion of the invention of the above-identified application, Ser. No. 10/742,153, filed December 19, 2003 in the United States at a date at least as early as September 12, 2003.
2. The effective filing date of the Examiner-cited prior art publication by Jagadeesan et al is September 12, 2003.
3. I am the named inventor of the above-identified application.
4. I conceived of this invention on a date prior to the September 12, 2003 filing date of the Jagadeesan et al reference.
5. Attached hereto is a copy of an internal invention record, with some information redacted. This invention record was created by me within my corporate environment before the September 12, 2003 filing date of the Jagadeesan et al reference.
6. Applicant has been diligent from the time of his conception of the invention up to the filing of this patent application. It can be appreciated that the invention was made in a corporate environment and that it takes the corporation some finite amount of time to act on an internally-made invention and to then file a patent application therefore.

7. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

By: 
Mark J. Enzmann

Date: 1-21-05

INTELLECTUAL PROPERTY STRATEGIC MANAGEMENT
LEGAL USE ONLY

Disclosure No.: [REDACTED]

Date: [REDACTED]

URGENT
Original
submission
date to CC.
LLB.

Invention Disclosure Form

1. What can we call your invention? (10 words or less)

Call Handoff from dissimilar transports.

2. Who do you think contributed to the conception of your invention?

List yourself and the people who may be inventors. (Use additional sheets if necessary)

Mark Enzmann

Name Printed

Signature

Date

Current Cingular Employee?



Yes



No

Network Strategic Planning

Business Unit

(404)249-0723

Telephone Number

(404)236-5949

Fax Number

5565 Glenridge Connector #960

Business Address

Atlanta, Ga 30342

City, State, Zip

Name Printed

Signature

Date

Current Cingular Employee?



Yes



No

Business Unit

Telephone Number

Fax Number

Business Address

City, State, Zip

Name Printed

Signature

Date

Current Cingular Employee?



Yes



No

Business Unit

Telephone Number

Fax Number

Business Address

City, State, Zip

3. Who will be the point of contact for further information?

Name: Mark Enzmann

Telephone (404)249-0723

BEST AVAILABLE COPY

4. What is your invention? (Please attach additional sheets (as much information as you feel is necessary) to describe your concepts - flow charts and/or block diagrams can be very helpful. In preparing this description, try to address the following:
- a) What have others done in the past (or, do now) – i.e. what is the problem that was solved?
 - b) What makes your invention new or different from what was done before – i.e. what is your solution?
 - c) What makes your invention better than what was done before?

This invention describes a method to continue an inprogress communication across networks with dissimilar transmission methods. In particular the involved networks would be 802.11 specification and Cellular data specification of any of the following: GPRS, 1XRT, 3XRT, EDGE, etc.

The method is currently written with the call initiation occuring on the 802 leg but that is not to say that the recipricol direction is not valid. A reversal of the steps would accomplish the transition from Cellular data to 802.

The attached visio diagrams give visual representation to the steps.

The technology used to accomplish this task is partially residing in the terminals and network today. There will be subtle changes in the sensing circuits of a terminal that has both 802 and cellular data capabilities incorporated. Many PDAs already have this ability. The kernel code envisioned is simular to code currently in use in cellular networks to aid in cell to cell handoff of a cellular voice call.

5. Two witnesses (who are not inventors) must attest to the fact that they read and understand the attached description. The Witnesses must sign below and initial and date each page of the attached description.

Witness Name

Signature

Date

Witness Name

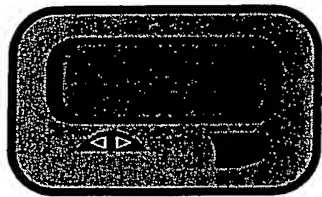
Signature

Date

E-mail this form and the Matrix to: <mailto:ipdisclosures@cingular.com>

WIRELESS HANDOFF

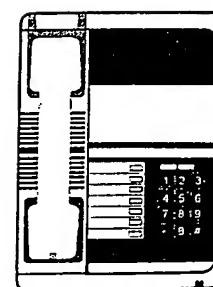
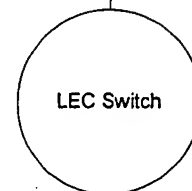
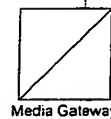
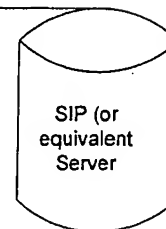
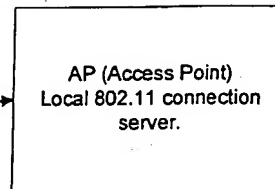
Step 1



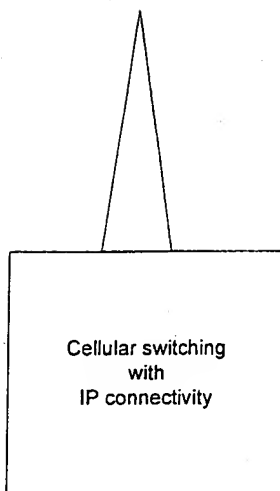
Wireless Device
With 802.11 and
Cellular capability

Start

The wireless device is currently
connected to the internet or an
intranet via 802.11 architecture.
The device has initiated a voice call
to the terminating station over the
802.11 connection.

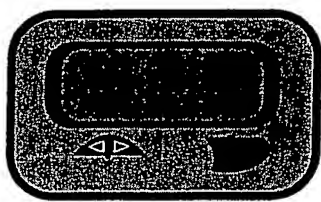


Terminating Station



Wireless Handoff

Step 2



Wireless Device
With 802.11 and
Cellular capability

AP (Access Point)
Local 802.11 connection
server.

Change begin

The wireless device while currently connected to the terminating station over the 802.11 connection, is moving out of range of the AP. In this case also out of range of the 802.11 connection. The device, wishing to continue the connection, will use the cellular capability to query the local service provider for capacity and capabilities.

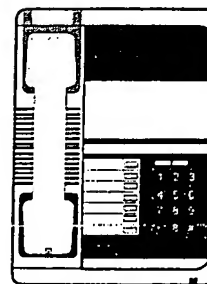
Query for signal and IP connectivity

Cellular switching
with
IP connectivity

SIP (or
equivalent
Server

Media Gateway

LEC Switch



Terminating Station

Wireless Handoff

Step 3

